

**Ion exchange membranes**

See also narrower:  
Anion exchange membranes  
Cation exchange membranes

**Ion exchangers**

See also narrower:  
Anion exchangers  
Cation exchangers  
Ion exchange membranes  
Radioactive waste ion exchangers

See also related:  
Analytical apparatus  
Chelating agents  
Extraction  
Ion exchange  
Ion exchange chromatography  
Polyelectrolytes

**Ion exchanging**

See Ion exchange

**Ion exclusion chromatography****Ion flotation (metal)**

See Flotation, metal ion

**Ion guns**

See Ion sources

**Ionic bond**

Valid heading during volumes 126-130 (1997-June 1999) only

See Bond, ionic

**Ionic collisions**

See also narrower:  
Electron capture  
Ion bombardment  
Ion channeling  
Ion-impact ionization  
Ion implantation  
Ion-ion recombination  
Rutherford backscattering

See also related:  
Atomic collisions  
Ion beams  
Ions  
Molecular collisions  
Reactive scattering

**Ionic conduction**

See Ionic conductivity

**Ionic conductivity**

See also narrower: Superionic conductivity

See also related:  
Diffusion  
Ionic conductors  
Ion mobility  
Ions  
Solid electrolytes  
Transference number  
Walden product

**Ionic conductors**

See also narrower: Superionic conductors

See also related:  
Ionic conductivity  
Transference number

**Ionic crystals**

See also related:  
Cubic crystal structures  
Ions

**Ionic current (biological)**

Valid heading during volumes 129-130 (July 1998-June 1999) only

See Electric current, ionic, biol.

**Ionicity**

See Bond

**Ionic potential**

See Electrostatic potential

**Ionic strength**

See also related:  
Activity (thermodynamic)  
Concentration (condition)  
Electrolytic solutions

**Ionic surfactants**

Valid heading during volumes 126-130 (1997-June 1999) only

See Surfactants, ionic

**Ion-impact ionization**

See also related:  
Electron impact ionization  
Ion bombardment

**Ion implantation**

See also related:  
Dopants  
Doping  
Implanted ions  
Ion beam-induced epitaxy  
Ion beams  
Ion bombardment  
Ion channeling  
Ions  
Stopping power  
Surface hardening

**Ion-ion recombination**

See also related:  
Plasma  
Radiative recombination

**Ionite P**

See Saponite ((Mg<sub>0.5-1</sub>Fe<sub>0-0.5</sub>)(Si<sub>3.67</sub>Al<sub>0.33</sub>)(Na<sub>0-0.33</sub>Ca<sub>0-0.17</sub>)(OH)<sub>2</sub>O<sub>10</sub>·4H<sub>2</sub>O) [1319-41-1]

**Ionite T**

See Stevensite [12417-86-6]

**Ionium**

See Thorium, isotope of mass 230 [14269-63-7]

**Ionization**

See also narrower:  
Autoionization  
Dissociative ionization  
Electron attachment  
Field ionization  
Impact ionization  
Penning ionization  
Photoionization

See also related:  
Atomic collisions  
Charge separation  
Dissociation  
Electric corona

**Electrolytic solutions****Electron capture****Electron detachment****Electron emission****Ion emission****Ionization chambers****Ionization constant****Ionization enthalpy****Ionization kinetics****Ionization potential****Ionizing radiation****Ions****Molecular collisions****Plasma****Proton transfer****Radiation chemistry**

multiphoton — see Photoionization, multiphoton

**Ionization, photo-**

See Photoionization

**Ionization chambers**

See also related:

Bolometers  
Drift chambers  
Ionization  
Lasers  
Microwave detectors

**Ionization constant**

See also related:

Dissociation constant  
Ionization

**Ionization energy**

See Ionization potential

**Ionization enthalpy**

See also related:

Bond energy  
Ionization  
Ionization potential  
Protonation enthalpy  
Reaction enthalpy

**Ionization in gases**

See Ionization

**Ionization in solids**

See Ionization

**Ionization kinetics**

See also related: Ionization

**Ionization potential**

See also related:

Binding energy  
Electron affinity  
Electronegativity  
Energy level  
Hardness (electronic structure)  
HOMO (molecular orbital)  
Ionization  
Ionization enthalpy  
Redox potential  
Work function

**Ionization potential and energy**

See Ionization potential

**Ionizing radiation**

See also narrower:

Cosmic ray  
Gamma ray  
X-ray

See also related:

Ionization  
Ions  
Solar radiation  
UV radiation

**Ion kinetic energy mass spectra**

See Mass-analyzed ion-kinetic energy spectra

**Ion kinetic energy mass spectrometry**

See Mass-analyzed ion-kinetic energy spectrometry

**Ion machining**

See Machining, ion-beam milling

**Ion microprobe analysis**

See also related:

Ion beams  
Ion microprobes  
Secondary-ion mass spectra  
Secondary-ion mass spectrometry

**Ion microprobes**

See also related:

Ion microprobe analysis  
Ions  
Mass spectrometers

**Ion microscopy**

See also narrower: Field ion microscopy

See also related: Ion beams

**Ion milling**

Valid heading during volumes 129-130 (July 1998-June 1999) only

See Machining, ion-beam milling

**Ion mobility**

See also related:

Ionic conductivity  
Ion mobility spectrometry  
Ions

**Ion mobility spectrometers**

See also related: Ion mobility spectrometry

**Ion mobility spectrometry**

See also related:

Ion mobility  
Ion mobility spectrometers

**Ion-molecule collisions**

Valid heading during volumes 126-130 (1997-June 1999) only

See

Ionic collisions  
ion-mol.  
Molecular collisions  
ion-mol.

**Ion-molecule reaction**

See also related: Ion-molecule reaction kinetics

**Ion-molecule reaction in gases**

See Ion-molecule reaction

**Ion-molecule reaction kinetics**

See also related: Ion-molecule reaction

**Ionogen**

See

Ionization  
Ions

**Ionol**

See Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- [128-37-0]

**retro-γ-Ionol**

See 2-Butanol, 4-(2,2-dimethyl-6-methylenecyclohexylidene)- [68238-73-3]

**α-Ionol**

See 3-Buten-2-ol, 4-(2,6,6-trimethyl-2-cyclohexen-1-yl)- [25312-34-9]

**β-Ionol**

See 3-Buten-2-ol, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)- [22029-76-1]

**Ionol 1**

See Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- [128-37-0]

**Ionol 2**

See Phenol, 2,6-bis(1,1-dimethylethyl)-4-ethyl- [4130-42-1]

**Ionol 3**

See Benzeneacetamide, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-N,N-dimethyl- [34988-65-3]

**Ionol 4**

See Phenol, 2,6-bis(1,1-dimethylethyl)-4-(methoxymethyl)- [87-97-8]

**Ionol 5**

See Phenol, 2-(1,1-dimethylethyl)-4-methyl-6-(1-phenylethyl)- [1706-65-6]

**Ionol 6**

See Phenol, 4-methyl-2,6-bis(1-phenylethyl)- [1817-68-1]

**Ionol 7**

See [1,1':3,1''-Terphenyl]-2'-ol, 4'-ethyl-ar,ar''-bis(1-methylethyl)- [35254-62-7]

**Ionol 8**

See Phenol, 4-ethyl-2,6-bis(1-phenylethyl)- [34988-67-5]

**Ionol 220**

See Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- [128-37-0]

**Ionol 330**

See Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- [128-37-0]

**Ionol BHT**

See Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- [128-37-0]

**Ionol CP**

See Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- [128-37-0]

**Ionol K**

See Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- [128-37-0]

**Ionomers**

Polymers containing minor amounts of ionized pendent acid groups capable of forming ionic crosslinks between chains are indexed here. Unspecified polymers containing major amounts of ionized pendent acid groups are indexed at Polyelectrolytes, anionic

**Ionomycin**

See 10,16-Docosadienoic acid, 11,19,21-trihydroxy-4,6,8,12,14,18,20-heptamethyl-22-[(2S,2'R,5S,5'S)-octahydro-5'-(1R)-1-hydroxyethyl]-2,5'-dimethyl[2,2'-bifuran]-5-yl]-9-oxo-, (4R,6S,8S,10Z,12R,14R,16E,18R,19R,20S,21S)- [56092-81-0]

**retro-Ionone**

See 2-Butanone, 4-(2,6,6-trimethyl-2-cyclohexen-1-ylidene)- [56052-61-0]

**retro-γ-Ionone**

See 2-Butanone, 4-(2,2-dimethyl-6-methylenecyclohexylidene)- [68238-72-2]

**α-Ionone**

(+)- — see 3-Buten-2-one, 4-[(1R)-2,6,6-trimethyl-2-cyclohexen-1-yl]-, (3E)- [24190-29-2]

**—, isomethyl-**

See 3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)- [127-51-5]

**—, 6-methyl-**

See 3-Buten-2-one, 4-(2,5,6,6-tetramethyl-2-cyclohexen-1-yl)- [79-69-6]

**β-Ionone**

See 3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (3E)- [79-77-6]

**—, dehydro-**

See 3-Buten-2-one, 4-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)- [1203-08-3]

**—, dihydro-**

See 2-Butanone, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)- [17283-81-7]

**—, 6-methyl-**

See 3-Buten-2-one, 4-(2,5,6,6-tetramethyl-1-cyclohexen-1-yl)- [79-70-9]

**γ-Ionone**

(-)- — see 3-Buten-2-one, 4-[(1R)-2,2-dimethyl-6-methylenecyclohexyl]-, (3E)- [24190-32-7]

**ψ-Ionone**

See 3,5,9-Undecatrien-2-one, 6,10-dimethyl- [141-10-6]

**Ionophores****Ionophoresis**

See Electrophoresis

**Ionophore X 206**

See 2H-Pyran-2-acetic acid, 6-[(2R,3S)-3-[(2R,5S,6R)-6-[(2R,3S,5R,6R)-6-[(R)-[(2S,2'R,3'R,5S,5'S)-5'-(2R,5R,6S)-6-ethyltetrahydro-5-hydroxy-5-methyl-2H-pyran-2-yl]octahydro-2'-hydroxy-2,3',5'-trimethyl[2,2'-bifuran]-5-yl]-hydroxymethyl]tetrahydro-6-hydroxy-3,5-dimethyl-2H-pyran-2-yl]methyl]tetrahydro-6-hydroxy-5-methyl-2H-pyran-2-yl]-2-hydroxybutyl]tetrahydro-α,3-dimethyl-, (αR,2S,3S,6R)- [36505-48-3]

**Ionosphere**

See also narrower:

Aurora

Ionospheric plasma

See also related:

Magnetosphere (earth)  
Thermosphere